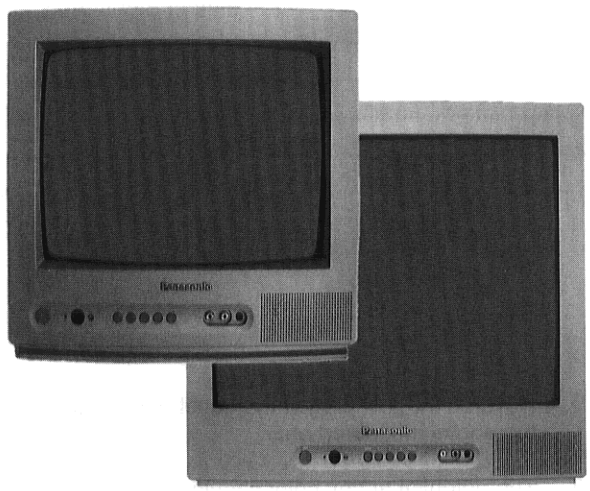
ORDER No. 00-SM-003

Service Manual



Colour Television

TX-21JT1

TX-14JT1

TC-14JR1

Z7 Chassis

SPECIFICATION

(Information in brackets {} refer to TX-14JT1,TC-14JR1)

Power Source:	220-240V a.c., 50Hz
Power Consumption:	53W {33W}
Stand-by Power Consumption:	1,1W
Aerial Impedance:	75Ω unbalanced, Coaxial Type
Receiving System:	PAL I, PAL-525/60
Receiving Channels:	UHF E21-E69
Intermediate Frequency: Video/Audio	
Video	39,5MHz
Audio	33,5MHz
Colour	35,07MHz
Terminals:	
AV1 IN	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mVrms 10kΩ RGB (21 pin) 0,7V p-p
AV1 OUT	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ
RCA IN	Video 1V p-p 75Ω
RCA IN	Audio 500mV rms 10kΩ
High Voltage:	26,7kV ±1kV {22,7kV ±1kV}
Picture Tube:	A51EER31X80 51cm {A34EAC01X13 34cm}
Audio Output:	6W (M.P.O.) 3W (R.M.S.) 8Ω Impedance
Headphones:	8Ω Impedance
Accessories supplied :	Remote Control 2 x R6 (UM3) Batteries T.V. Stand TS2800 -TX-21JT1only
Dimensions:	
Height:	476mm {352mm}
Width:	512mm {371mm}
Depth:	470mm {371,5mm}
Net weight:	20,6kg {9,5kg}

Specifications are subject to change without notice.
Weights and dimensions shown are approximate.

NOTE: This Service Manual should be used in conjunction with the Z7 Technical guide.

Panasonic CS (U.K.) Ltd.
WILLOUGHBY ROAD,
BRACKNELL,
BERKS.,
RG12 8FT.

Panasonic

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SAFETY PRECAUTIONS

GENERAL GUIDE LINES

1. It is advisable to insert an isolation transformer in the a.c. supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts that have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the a.c. outlet.
5. Potentials as high as 27,7kV {23,7kV} are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

LEAKAGE CURRENT COLD CHECK

1. Unplug the a.c. cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis, the reading must be infinite.

LEAKAGE CURRENT HOT CHECK

1. Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
2. Connect a 2kΩ 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
3. Use an a.c. voltmeter with high impedance to measure the potential across the resistor.
4. Check each exposed metallic part and check the voltage at each point.
5. Reverse the a.c. plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1,4Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

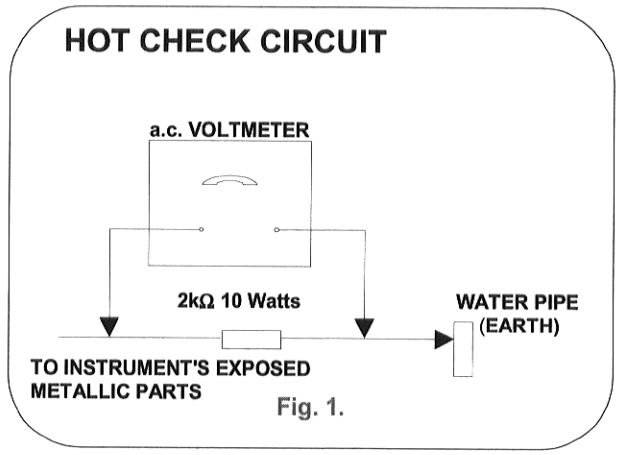


Fig. 1.

X-RADIATION WARNING

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that the jig is capable of handling 27,7kV {23,7kV} without causing X-Radiation.

NOTE: It is important to use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate 26,7kV ± 1kV {22,7kV ± 1kV}.

If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

SERVICE HINTS

How to remove the rear cover

1. Remove the 5 screws as shown in **Fig.2.**

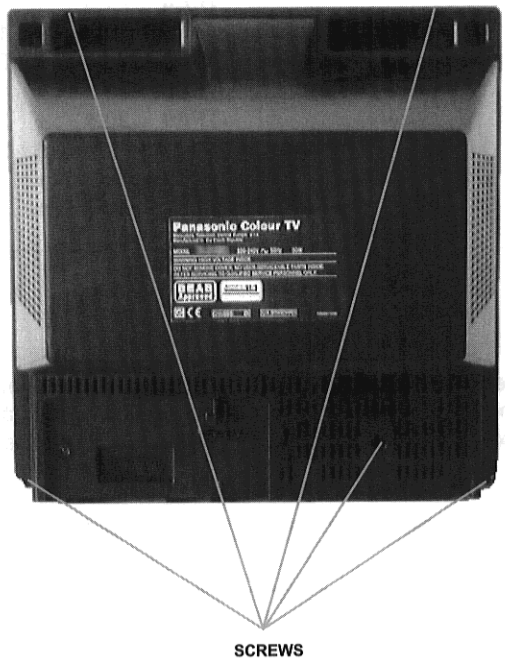


Fig.2.

LOCATION OF CONTROLS

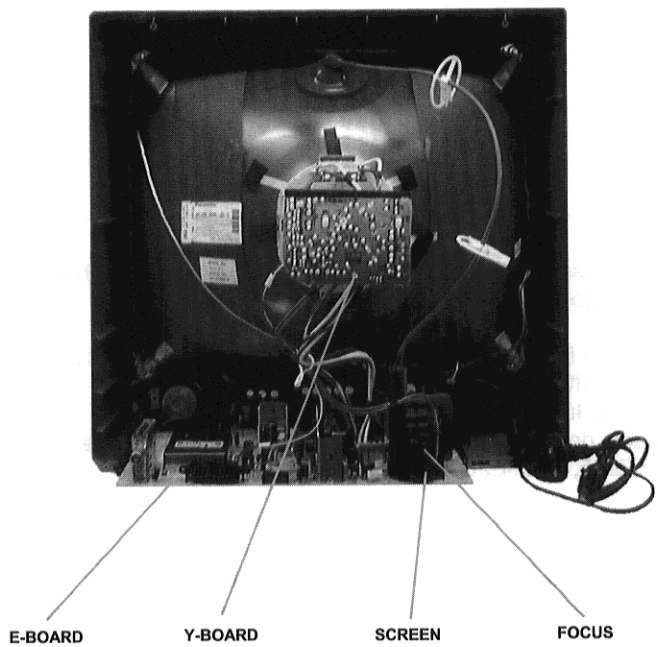


Fig.3.

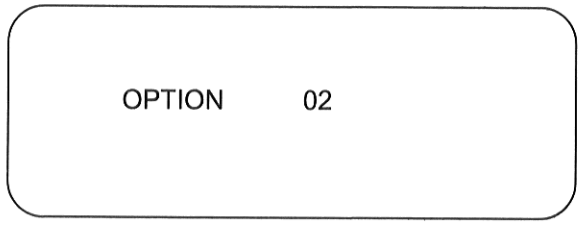
ADJUSTMENT PROCEDURE

Item / Preparation	Adjustments
+B SET-UP 1. Operate the TV set, pattern crosshatch. 2. Set the controls : Brightness Minimum Contrast Minimum Volume Minimum	Confirm the following voltages. **TPE1** 10 ± 1V **TPE2** 5,2 ± 0,3V **TPE3** 13 ± 1V {13,5 ± 1V} **TPE4** 21,5 ± 1,5V {20,5 ± 1,5V} **TPE5** 5 ± 0,3V **TPE6** 9 ± 1V **TPE9** 30,4 ± 2,5V {31 ± 2,5V} **TPE10** 191 ± 10V {147 ± 10V} **TPE11** -13,2 ± 1V {-13,8 ± 1V} **TPE12** 13,2 ± 1,5V {12,8 ± 1,5V} **TPE13** 125 ± 1,5V {104 ± 1,5V} **TPE14** 7,9 ± 1V **TPE18** 8,2 ± 1V {8,1 ± 1V} **TPE19** 31 ± 1V {30,6 ± 1,5V}

FACTORY SETTINGS

To return customer settings to factory settings and clear owner ID of all information input by the customer, enter Self-Check mode. Press the down **(-/v)** button on the customer controls at the front of the TV set, at the same time pressing the **STATUS** button [+] on the remote control. To exit Self Check, switch off the TV set at the power button.

NOTE: Self Check should only be used when refurbishing the TV set and not during normal repair work.

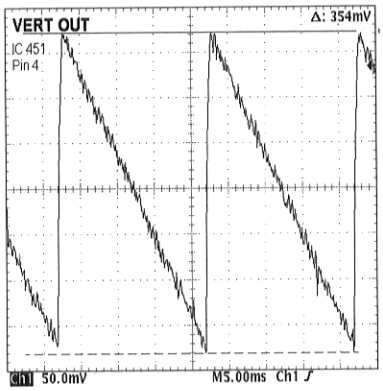


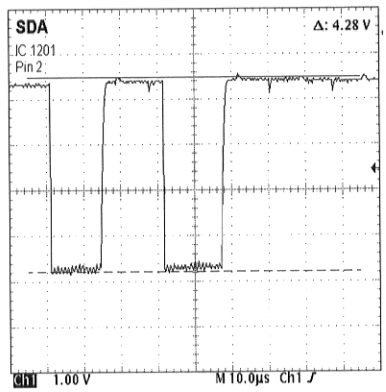
Service Aids

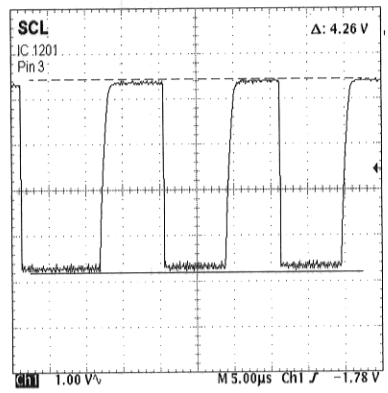
To aid in the service of our current chassis there are a number of Service Aids which have been made available.

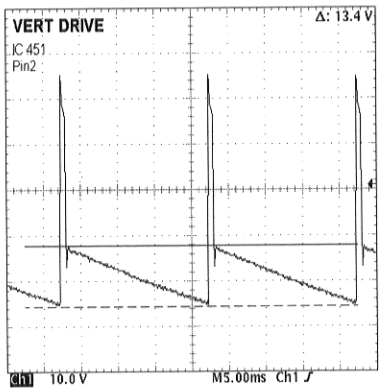
- **LUCI** interface kit (**L**inked **U**tility **C**omputer **I**nterface)
  Part number: TZS6EZ002
  This contains interface and cables for connecting TV service connector and a PC as well as diagnostic software. As new models are introduced upgrade software will become available.
- **VICI** (**V**isual **I**nteractive **C**omputer **I**nformation)
  These C.D.'s contain multimedia documentation providing quick access to service information.
  Part No. TZS7EZ006, TZS7EZ005, TZS8EZ001& TZS9EZ001
  1. Service Manuals
  2. Instruction Books
  3. Technical Information
- **TASMIN** (**T**echnically **A**dvanced **S**ystem for **M**ultimedia **I**nteractive **N**otes)
  As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.

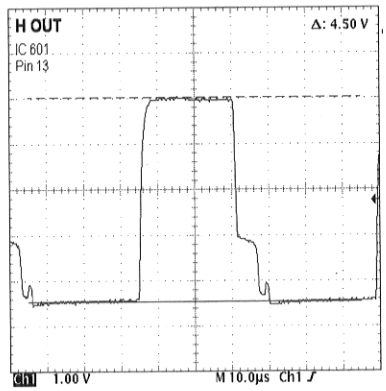
WAVEFORM PATTERN TABLE

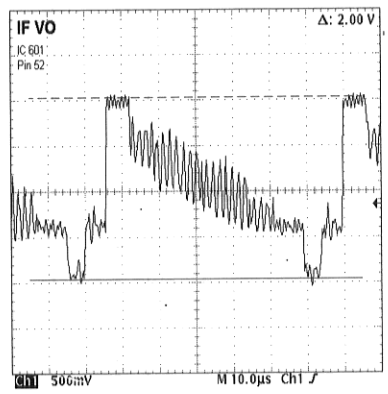


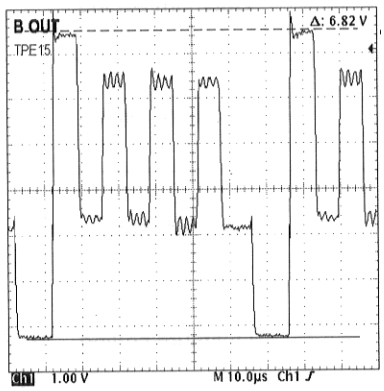


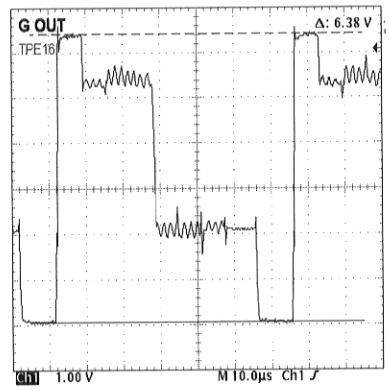


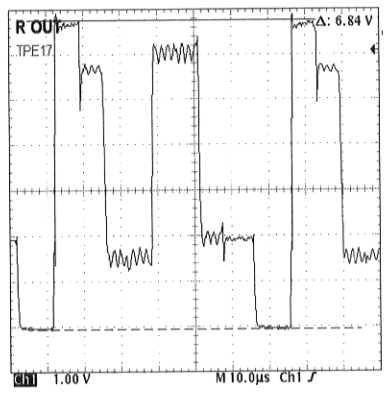


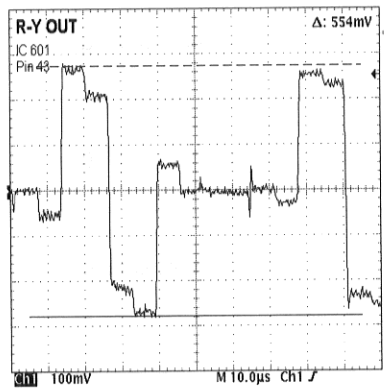


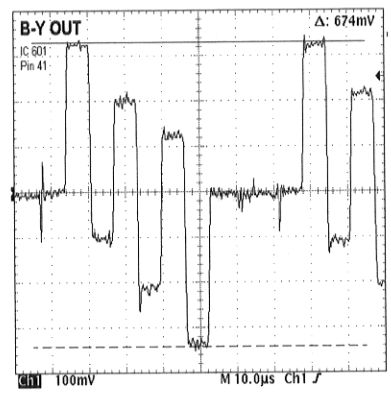












CONDITIONS:

Contrast: MAX
Brightness: MID
Colour: MID
CATS: OFF
Sharpness: MID

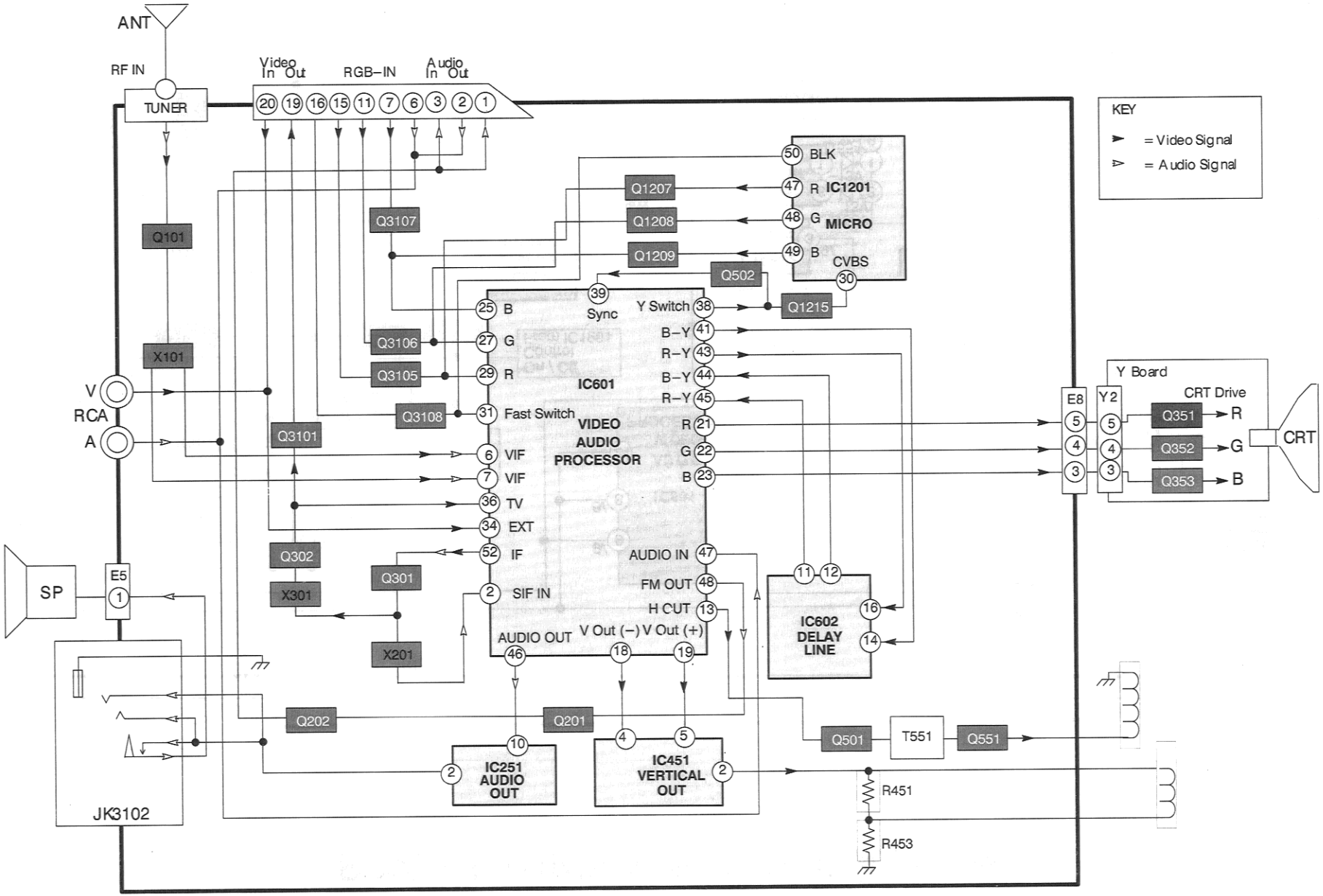
ALIGNMENT SETTINGS

1. Select program position 60 and set the sharpness to minimum.
2. Press the **Off Timer** button on the remote control and at the same time press the ∨ (down) button on the customer controls at the front of the TV, this will place the TV into Service Mode.
3. Press the ∧ / ∨ buttons to step up / down through the functions.
4. Press the **+** / **-** buttons to after the function values.
5. Press the **STORE** button after each adjustment has been made to store the required values.
6. To exit Service Mode press the Normalization button.

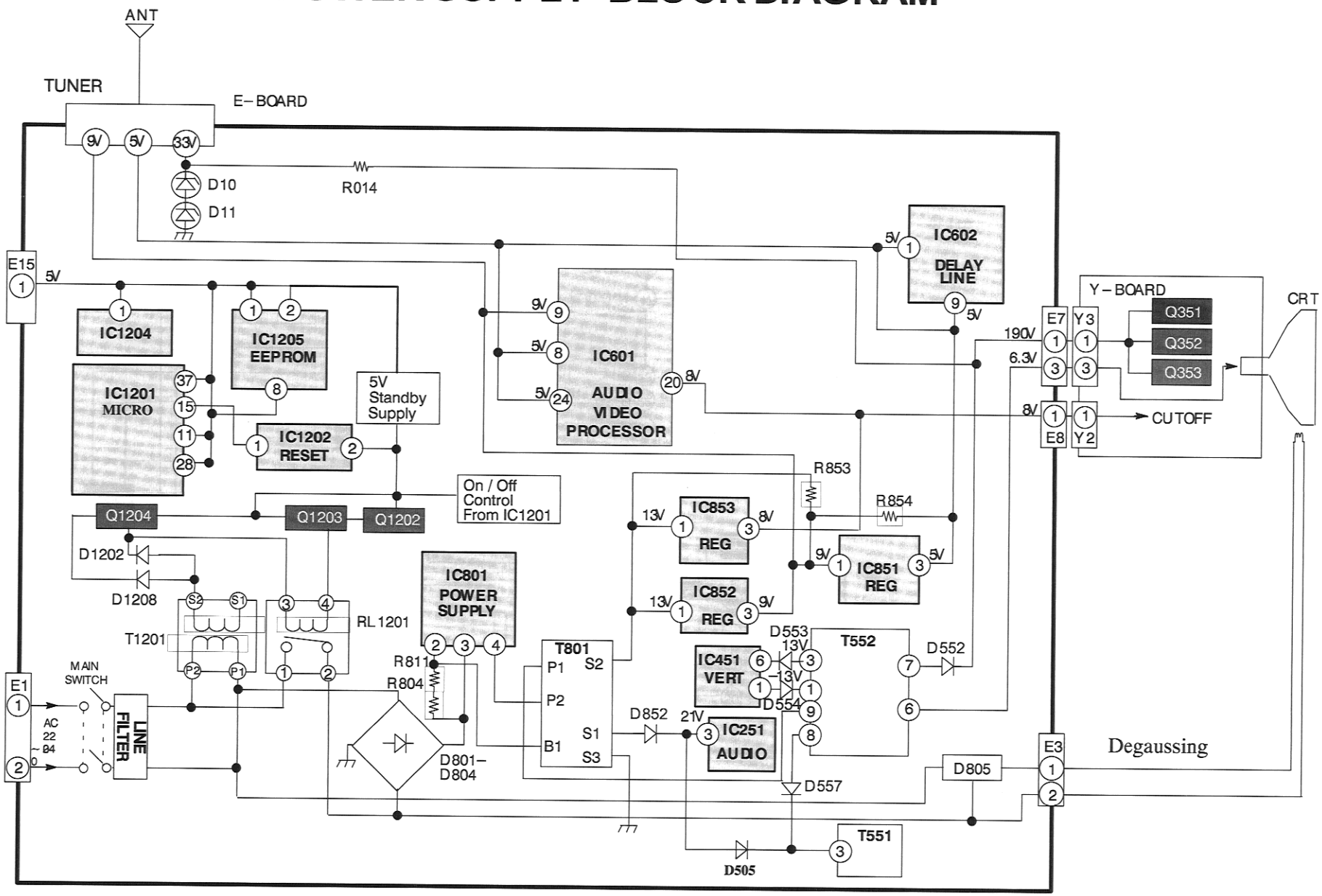
NOTE : The figures used below are nominal and used for representative purposes only.

Alignment Function	**Setting indication** **Note:** All setting values are approximate	**Settings / Special features**
1. Vertical amplitude	V-Amp 31	Optimum setting
2. Vertical position	V-Pos 22	Optimum setting
3. Horizontal centre	H-Ctr 07	Optimum setting.
4. Red cutoff	R-Cut 148	Optimum setting.
5. Green cutoff	G-Cut 146	Optimum setting.
6. Blue cutoff	B-Cut 163	Optimum setting.
7. Red drive	R-Drv 37	Optimum setting.
8. Blue drive	B-Drv 25	Optimum setting.
9. AGC	AGC 29	Optimum setting.
10. Sub contrast	S-Con 26	Optimum setting.
11. Sub colour	S-Col 49	Optimum setting.
12. Sub bright	S-Bri 43	Optimum setting.

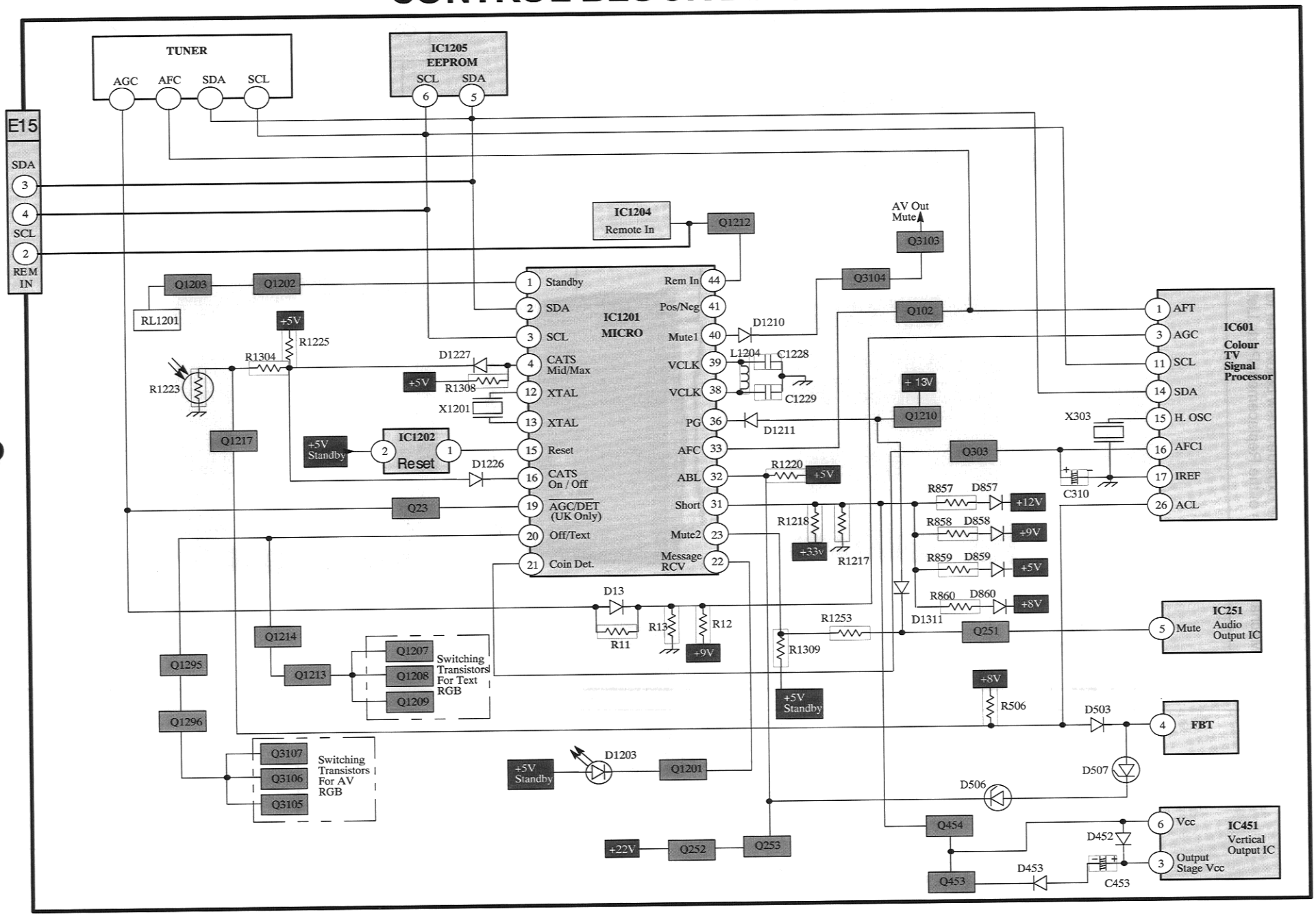
VIDEO & AUDIO BLOCK DIAGRAM



POWER SUPPLY BLOCK DIAGRAM

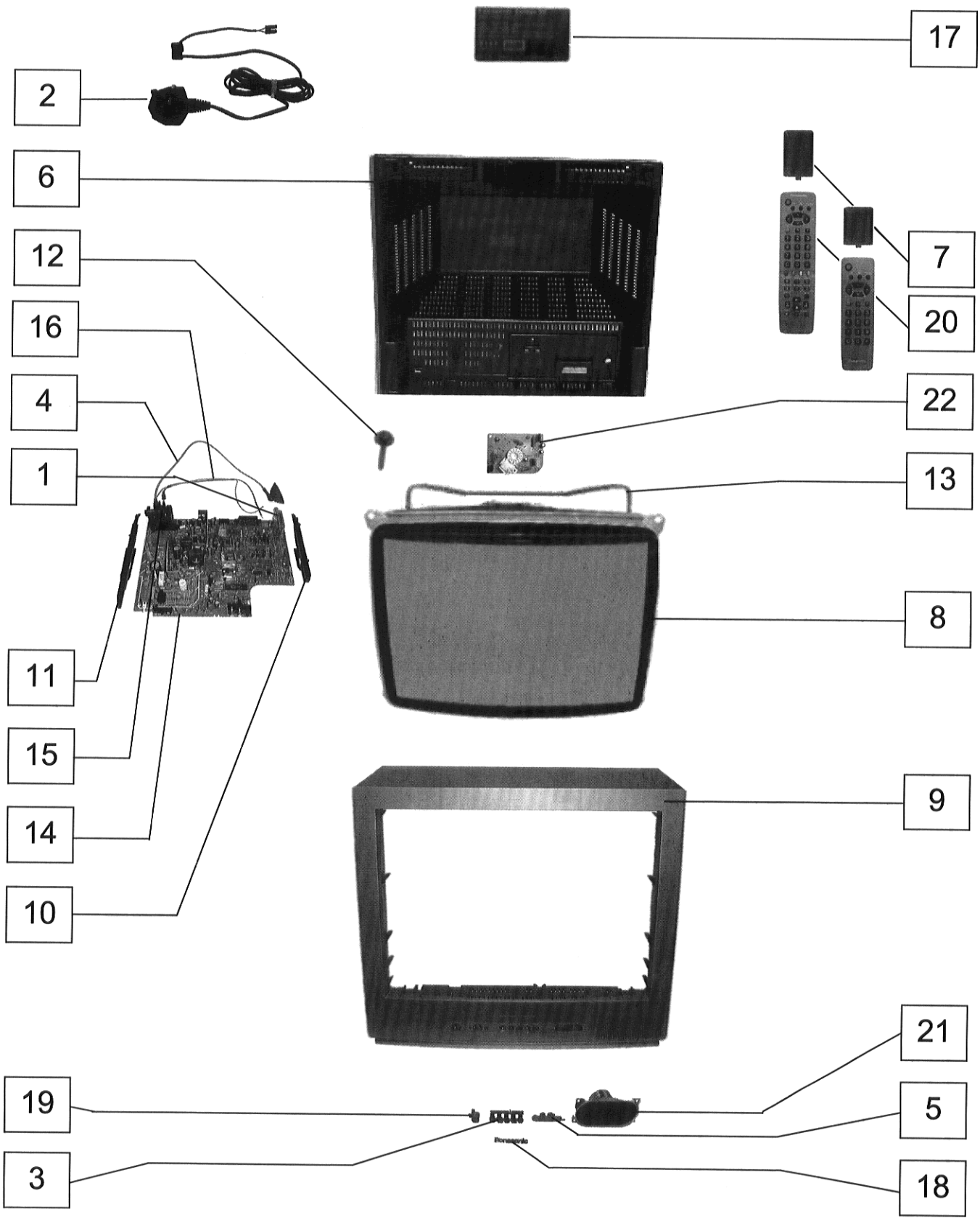


CONTROL BLOCK DIAGRAM



PARTS LOCATION

NOTE:
The numbers on the exploded view below refer to the Mechanical section of the Replacement Parts List.



REPLACEMENT PARTS LIST

Important Safety Notice

Components Identified by ⚠ mark have special characteristics important for safety.
* When replacing any of these components, use only manufacturers specified parts.
In case of ordering these spare parts, please always add the complete Model-Type number to your order.

Cct Ref	Parts Number	Description	
COMMON PARTS			
MECHANICAL PARTS			
1	ENV87D05G3	TUNER	⚠
2	TSX8E0036	POWER CORD	⚠
MISCELLANEOUS COMPONENTS			
POE3	TMW8E015-2	LED HOLDER	
R1223	P1201	SENSOR	
I.C.s			
IC251	LA4265	AUDIO OUTPUT	
IC451	LA7840	VERTICAL OUTPUT	
IC601	M52778SP-A	AUDIO VIDEO PROCESSOR	
IC602	U3666M-MDP	DELAY LINE	
IC801	STR58041A	POWER SUPPLY	
IC851	L78M05MRB	5V REGULATOR	
IC852	L78M09MRB	9V REGULATOR	
IC853	AN78M08LB	8V REGULATOR	
IC1202	MN1280R	RESET	
IC1204	RPM-6937	LED RECEIVER	
FUSES			
F801	19181-3.15	FUSE	⚠
F801-2	EYF52BC	FUSE HOLDER	
F801-1	EYF52BC	FUSE HOLDER	
DIODES			
D010	MA4150	DIODE	
D011	MA4150	DIODE	
D304	1SS355TE-17	DIODE	
D306	MTZJT-774.7A	DIODE	
D307	MTZJT-774.7A	DIODE	
D351	MA165TA5	DIODE	
D352	MA165TA5	DIODE	
D353	MA165TA5	DIODE	
D354	MA165TA5	DIODE	
D452	ERA15-02V3	DIODE	
D453	MA165TA5	DIODE	
D454	MA165TA5	DIODE	
D455	MA165TA5	DIODE	
D503	MA165TA5	DIODE	
D504	MA165TA5	DIODE	
D505	1SR124-4AT82	DIODE	
D506	MTZJ33B	DIODE	
D541	MA165TA5	DIODE	
D542	MA165TA5	DIODE	
D551	TVSRH2FV1	DIODE	
D552	RU2AMLFA1	DIODE	
D553	1SR124-4AT82	DIODE	

Cct Ref	Parts Number	Description
D554	1SR124-4AT82	DIODE
D555	ERA22-02V3	DIODE
D556	MA165TA5	DIODE
D557	1SR124-4AT82	DIODE
D801	EMO2BMV0	DIODE
D802	EMO2BMV0	DIODE
D803	EMO2BMV0	DIODE
D804	EMO2BMV0	DIODE
D808	1SR124-4AT82	DIODE
D809	1SR124-4AT82	DIODE
D810	RU3LFA1	DIODE
D811	1SR124-4AT82	DIODE
D812	R2KNLFA1	DIODE
D814	MA165TA5	DIODE
D815	1SR124-4AT82	DIODE
D816	1SR124-4AT82	DIODE
D851	TVSRU3AMLFA5	DIODE
D857	MA165TA5	DIODE
D858	MA165TA5	DIODE
D859	MA165TA5	DIODE
D860	MA165TA5	DIODE
D861	MA165TA5	DIODE
D1202	1N4150T-77	DIODE
D1203	SLR56UR3FLF	LED
D1205	1N4150T-77	DIODE
D1207	MTZJT-778.2A	DIODE
D1208	1N4150T-77	DIODE
D1209	MTZJT-775.1C	DIODE
D1211	MA165TA5	DIODE
D1212	MA165TA5	DIODE
D1213	MA165TA5	DIODE
D1214	1N4150T-77	DIODE
D1217	MA165TA5	DIODE
D1218	MA165TA5	DIODE
D1219	MA165TA5	DIODE
D1220	MA165TA5	DIODE
D1221	MA165TA5	DIODE
D1222	MA165TA5	DIODE
D1224	MA165TA5	DIODE
D1226	MA700TA5	DIODE
D1227	MA700TA5	DIODE
D1301	MTZJT-775.1A	DIODE
D1311	MA165TA5	DIODE
D3101	MA165TA5	DIODE
TRANSISTORS		
Q023	BC847B	TRANSISTOR
Q101	BF370-126	TRANSISTOR
Q102	BC847B	TRANSISTOR
Q201	BC847B	TRANSISTOR
Q202	BC847B	TRANSISTOR
Q251	BC847B	TRANSISTOR
Q301	BC847B	TRANSISTOR

Cct Ref	Parts Number	Description
Q302	BC847B	TRANSISTOR
Q303	BC847B	TRANSISTOR
Q354	BC857B	TRANSISTOR
Q453	BC847B	TRANSISTOR
Q454	BC847B	TRANSISTOR
Q501	2SD2398-M2	TRANSISTOR
Q502	BC857B	TRANSISTOR
Q503	BC847B	TRANSISTOR
Q504	BC847B	TRANSISTOR
Q801	BC847B	TRANSISTOR
Q802	2SD965-R	TRANSISTOR
Q1201	BC847B	TRANSISTOR
Q1202	BC847B	TRANSISTOR
Q1203	BC847B	TRANSISTOR
Q1204	2SC1317-TA	TRANSISTOR
Q1205	BC847B	TRANSISTOR
Q1207	BC847B	TRANSISTOR
Q1208	BC847B	TRANSISTOR
Q1209	BC847B	TRANSISTOR
Q1210	BC857B	TRANSISTOR
Q1211	BC857B	TRANSISTOR
Q1212	BC847B	TRANSISTOR
Q1213	BC847B	TRANSISTOR
Q1217	2SD965-R	TRANSISTOR
Q1240	BC847B	TRANSISTOR
Q1295	BC857B	TRANSISTOR
Q1296	BC847B	TRANSISTOR
Q3101	2SC1318-S	TRANSISTOR
Q3103	2SD1328STX	TRANSISTOR
Q3104	BC857B	TRANSISTOR
Q3105	BC857B	TRANSISTOR
Q3106	BC857B	TRANSISTOR
Q3107	BC857B	TRANSISTOR
Q3108	BC857B	TRANSISTOR
TRANSFORMERS		
T551	ETH19Z169AZ	TRANSFORMER ⚠
T1201	ETP35KAN617U	TRANSFORMER ⚠
COILS		
J208	EXCELSA39V	COIL
JEY	EXCELDR35V	COIL
L010	EXCELSA35T	COIL
L012	EXCELSA35T	COIL
L102	EQL7EN025Q	COIL
L103	EQV7EN210Q	COIL
L105	ELESNR22KA	COIL
L106	TLTACT6R8K	COIL
L107	TLTACT6R8K	COIL
L201	TLTACT150K	COIL
L202	TLTACT4R7K	COIL
L301	TLTACT100K	COIL
L303	TLTACT150K	COIL
L451	EXCELSA35T	COIL
L803	EXCELSA35T	COIL
L851	EXCELSA35T	COIL
L852	EXCELSA35T	COIL
L1201	EXCELSA35T	COIL
L1202	TLTACT331K	COIL
L1203	TLTACT100K	COIL
L1204	ERJNA6R8GF	COIL
L1207	TLTACT100K	COIL
L1208	TLTACT100K	COIL
L1209	EXCELSA35T	COIL
FILTERS		
L801	ELF15N005A	LINE FILTER
X101	F1045A	FILTER

Cct Ref	Parts Number	Description
X104	EFCV4155A3	CERAMIC FILTER
X201	EFCS6R0MS5	FILTER
X301	EFCWS6004T	CERAMIC FILTER
X303	TAFCSB503F6	FILTER
CRYSTALS		
X601	LN-P-01S	CRYSTAL
X1201	CSA18.00MXZ	CRYSTAL
RESISTORS		
C016	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
C605	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JC1	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JC7	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JC8	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JC9	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JC11	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JC12	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JC13	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JC14	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JC20	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JC21	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JC22	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JC23	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JC25	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JC26	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JC28	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JC31	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JC35	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JEAK	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JEAN	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JEG	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JEJ	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JEP	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JEX	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JEZ	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
R010	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15K Ω
R011	ERJ6GEYJ271	S.M.CARB 0.1W 5% 270 Ω
R013	2-640463-3	METAL 2W 5% 22K Ω
R014	ERG2SJS273	METAL 2W 5% 27K Ω ⚠
R016	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100 Ω
R017	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100 Ω
R018	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
R024	ERJ6GEYJ123	S.M.CARB 0.1W 5% 12K Ω
R025	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100K Ω
R101	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100 Ω
R103	ERJ6GEYJ272	S.M.CARB 0.1W 5% 2K7 Ω
R104	ERJ6GEYJ822	S.M.CARB 0.1W 5% 8K2 Ω
R105	ERJ6GEYJ220	S.M.CARB 0.1W 5% 22 Ω
R106	ERJ6GEYJ821	S.M.CARB 0.1W 5% 820 Ω
R107	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1K Ω
R108	ERJ6GEYJ124	S.M.CARB 0.1W 5% 120K Ω
R109	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
R110	ERJ6GEYJ392	S.M.CARB 0.1W 5% 3K9 Ω
R112	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
R113	ERJ6GEYJ124	S.M.CARB 0.1W 5% 120K Ω
R114	ERJ6GEYJ123	S.M.CARB 0.1W 5% 12K Ω
R115	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1K Ω
R116	ERJ8GEYJ152	S.M.CARB .125W 5% 1K5 Ω
R117	ERJ6GEYJ562	S.M.CARB 0.1W 5% 5K6 Ω
R202	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
R203	ERJ6GEYJ122	S.M.CARB 0.1W 5% 1K2 Ω
R205	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2 Ω
R206	ERJ6GEYJ182	S.M.CARB 0.1W 5% 1K8 Ω
R221	ERJ6GEYJ221	S.M.CARB 0.1W 5% 220 Ω
R226	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
R227	ERJ6GEYJ562	S.M.CARB 0.1W 5% 5K6 Ω
R251	ERJ6GEYJ3R3	S.M.CARB 0.1W 5% 3R3 Ω

Cct Ref	Parts Number	Description			
R256	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R257	ERQ1CJP120	FUSIBLE	1W	5%	12 Ω ⚠
R259	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R260	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R261	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R301	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R302	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R303	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R304	ERJ6ENF2201	S.M.CARB	0.1W	1%	2K2 Ω
R309	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8 Ω
R310	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R311	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω
R312	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω
R313	ERQ14AJ470	METAL	0.25W	5%	47 Ω ⚠
R314	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R315	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R316	ERQ14AJ470	METAL	0.25W	5%	47 Ω ⚠
R317	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R318	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R319	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R320	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R323	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R372	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R373	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R374	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R401	ERJ6ENF9100	S.M.CARB	0.1W	1%	910 Ω
R402	ERJ6ENF8201	S.M.CARB	0.1W	1%	8K2 Ω
R403	ERJ6ENF6801	S.M.CARB	0.1W	1%	6K8 Ω
R451	ERDS1TJ331	CARBON	0.5W	5%	330 Ω
R452	ERJ6GEYJ1R0	S.M.CARB	0.1W	5%	1 Ω
R454	ERJ6GEYF153V	S.M.CARB	0.1W	5%	15K Ω
R456	ERO25CKF5601	METAL	0.25W	1%	6K1 Ω ⚠
R457	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R458	ERDS2TJ683T	CARBON	2W	5%	68K Ω
R459	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R460	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R461	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R462	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R501	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R502	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω
R504	ERG2ANJP471H	METAL	2W	5%	470 Ω
R505	ERJ6GEYJ433	S.M.CARB	0.1W	5%	43K Ω
R510	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω
R511	ERJ6GEYJ334	S.M.CARB	0.1W	5%	330K Ω
R513	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R515	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R516	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R518	ERJ6ENF1302	S.M.CARB	0.1W	1%	13K Ω
R520	ERJ6GEYJ334	S.M.CARB	0.1W	5%	330K Ω
R521	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R541	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R551	ERDS1TJ1R5	CARBON	0.5W	5%	1R5 Ω
R552	ERDS1TJ1R5	CARBON	0.5W	5%	1R5 Ω
R601	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R602	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R603	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R604	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R605	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R606	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R611	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R612	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R613	ERJ6GEYJ395	S.M.CARB	0.1W	5%	3M9 Ω
R614	2-640463-3	METAL	2W	5%	22K Ω
R801	ERF5ZK2R7	WOUND	5W	20%	2R7 Ω ⚠
R804	ERDS1TJ224T	CARBON	0.5W	5%	220K Ω
R805	ERW2PKR33	WOUND	2W	20%	R33 Ω ⚠

Cct Ref	Parts Number	Description			
R806	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R808	ERG12SJ561P	METAL	0.5W	5%	650 Ω
R809	ERG2ANJP560H	METAL	2W	5%	56 Ω ⚠
R810	ERQ12HJ100	FUSIBLE	0.5W	5%	10 Ω ⚠
R811	ERDS1TJ224T	CARBON	0.5W	5%	220K Ω
R813	ERJ6GEYJ202	S.M.CARB	0.1W	5%	2K Ω
R814	ERD75TAJ825	CARBON	0.75W	5%	8M2 Ω ⚠
R819	ERDS1TJ104	CARBON	0.5W	5%	100K Ω
R853	ERG2ANJP270H	METAL	2W	5%	27 Ω
R857	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R858	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R859	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R860	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R861	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1201	ERQ1CJP2R2	FUSIBLE	1W	10%	2R2 Ω ⚠
R1202	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R1203	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R1204	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R1205	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R1206	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R1208	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1211	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1212	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1214	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1219	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R1220	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1221	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1222	ERJ6GEYJ330	S.M.CARB	0.1W	5%	33 Ω
R1224	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω
R1225	ERJ6GEYJ433	S.M.CARB	0.1W	5%	43K Ω
R1226	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1227	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1228	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1229	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1231	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1232	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R1233	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R1235	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω
R1236	2-640463-3	METAL	2W	5%	22K Ω
R1237	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1238	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1239	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1240	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1243	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1244	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1246	ERD25TJ272F	CARBON	0.25W	5%	2K7 Ω
R1247	ERDS2TJ221T	CARBON	0.5W	5%	220 Ω
R1248	2-640463-3	METAL	2W	5%	22K Ω
R1249	ERDS1TJ121	CARBON	0.5W	5%	120 Ω
R1250	ERDS1TJ560	CARBON	0.5W	5%	56 Ω
R1255	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1257	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R1258	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1259	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1261	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω
R1263	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω
R1265	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω
R1266	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1267	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1268	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1269	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1270	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1271	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1272	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1273	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω
R1274	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω

Cct Ref	Parts Number	Description			
R1276	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1279	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1280	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1282	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1283	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1284	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1285	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1286	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1287	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1288	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1289	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R1293	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1294	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1295	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1296	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1297	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1298	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1303	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1308	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R1309	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R1311	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3101	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R3102	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R3103	ERJ6GEYJ564	S.M.CARB	0.1W	5%	560K Ω
R3104	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R3105	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3106	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3107	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3108	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3109	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R3110	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R3111	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3115	ERDS1TJ750	CARBON	0.5W	5%	75 Ω
R3120	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3121	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R3122	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R3123	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R3124	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R3125	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3126	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3127	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3128	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R3130	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3132	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3133	2-640463-3	METAL	2W	5%	22K Ω
R3134	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3136	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3137	2-640463-3	METAL	2W	5%	22K Ω
R3138	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3140	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3141	2-640463-3	METAL	2W	5%	22K Ω
R3142	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3143	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω

CAPACITORS

C010	ECJ2VB1H103K	ELECT	350V	10nF
C011	ECEA1CU100	ELECT	16V	10µF
C012	ECJ2VB1H103K	ELECT	350V	10nF
C014	ECUV1H080DCX	S.M. CAP	50V	80pF
C015	ECA1HM330B	ELECT	50V	33µF
C017	ECUV1H100DCX	S.M. CAP	50V	10pF
C019	ECJ2VB1H103K	ELECT	350V	10nF
C102	ECUV1H101JCX	S.M. CAP	50V	100pF
C103	ECJ2VB1H103K	ELECT	350V	10nF
C105	ECJ2VB1H103K	ELECT	350V	10nF
C107	ECA1HMR22GB	ELECT	50V	0.22µF

Cct Ref	Parts Number	Description			
C108	ECJ2VB1H103K	ELECT	350V	10nF	
C110	ECA1HM0R1B	ELECT	50V	0R1µF	
C111	ECUV1H103KBW	S.M. CAP	50V	10nF	
C113	ECJ2VB1H103K	ELECT	350V	10nF	
C116	ECJ2YB1H104K	ELECT	350V	100nF	
C203	ECUV1H220JCX	S.M. CAP	50V	22pF	
C204	ECUV1H220JCX	S.M. CAP	50V	22pF	
C207	ECEA1CN100	ELECT	16V	10µF	
C208	ECEA1CU100	ELECT	16V	10µF	
C251	ECA1EM471GB	ELECT	25V	470µF	
C253	ECA1EHG470B	ELECT	50V	47pF	
C254	ECUV1H272JCX	S.M. CAP	50V	2.7nF	
C258	ECA1EHG101B	ELECT	50V	100nF	
C260	ECA1EM102GB	ELECT	25V	100µF	
C261	ECUV1H471JCX	S.M. CAP	50V	470pF	
C301	ECEA1HU101	ELECT	50V	100µF	
C302	ECJ2VF1H104Z	ELECT	350V	100nF	
C304	ECJ2VF1H104Z	ELECT	350V	100nF	
C305	ECEA1HU101	ELECT	50V	100µF	
C307	ECEA1HU101	ELECT	50V	100µF	
C308	ECUV1H104ZFW	S.M. CAP	50V	100nF	
C309	ECJ2VB1H103K	ELECT	350V	10nF	
C311	ECJ2VF1H104Z	ELECT	350V	100nF	
C312	ECJ2VF1H104Z	ELECT	350V	100nF	
C313	ECJ2VF1H104Z	ELECT	350V	100nF	
C314	ECEA1HNR47UB	ELECT	50V	0.47µF	
C315	ECEA1HN2R2UB	ELECT	50V	2.2µF	
C316	ECEA1HU101	ELECT	50V	100µF	
C317	ECEA1HU101	ELECT	50V	100µF	
C318	ECEA1HNR47UB	ELECT	50V	0.47µF	
C319	ECJ2VF1H104Z	ELECT	350V	100nF	
C323	ECUV1H102JCX	S.M. CAP	50V	1nF	
C355	ECKC3D152J	CERAMIC	2KV	1.5nF	⚠
C357	ECKC2H152J	CERAMIC	500V	1.5nF	⚠
C362	ECUV1H102ZFX	S.M. CAP	50V	1nF	
C368	ECEA2EU010	ELECT	250V	1µF	
C370	ECA1CM220GB	ELECT	16V	22µF	
C401	ECJ2VB1H223K	ELECT	350V	22nF	
C402	ECJ2VB1H472K	ELECT	350V	4.7nF	
C404	ECJ2VF1H103Z	ELECT	350V	10nF	
C461	ECUV1H100CCX	S.M. CAP	50V	10pF	
C502	ECJ2VB1H223K	ELECT	350V	22nF	
C503	ECUV1H391JCX	S.M. CAP	50V	390pF	
C504	ECEA1HN010UB	ELECT	50V	1µF	
C505	ECUV1H331JCX	S.M. CAP	50V	330pF	
C506	ECQM1273KZW	FILM	100V	27nF	
C507	ECA1HHG100B	ELECT	50V	10µF	
C541	ECEA1EN4R7UB	ELECT	25V	4.7µF	
C559	ECKC2H471J	CERAMIC	500V	470pF	⚠
C560	ECKC2H471J	CERAMIC	500V	470pF	⚠
C561	ECEA2EU100	ELECT	250V	10µF	
C562	ECKC2H471J	CERAMIC	500V	470pF	⚠
C566	ECKC2H471J	CERAMIC	500V	470pF	⚠
C601	ECJ2YB1H473K	ELECT	350V	47nF	
C602	ECJ2VB1H153K	ELECT	350V	15nF	
C606	ECJ2VF1H104Z	ELECT	350V	100nF	
C607	ECJ2VF1H104Z	ELECT	350V	100nF	
C608	ECUV1H470JCX	S.M. CAP	50V	47pF	
C609	ECUV1H470JCX	S.M. CAP	50V	47pF	
C610	ECEA1HU101	ELECT	50V	100µF	
C611	ECJ2VF1H104Z	ELECT	350V	100nF	
C612	ECJ2VB1H103K	ELECT	350V	10nF	
C613	ECJ2VB1H103K	ELECT	350V	10nF	
C614	ECJ2VF1H104Z	ELECT	350V	100nF	
C623	ECUV1H104ZFW	S.M. CAP	50V	100nF	
C624	ECUV1H560JCX	S.M. CAP	50V	56pF	

Cct Ref	Parts Number	Description			
C625	ECUV1H560JCX	S.M. CAP	50V	56pF	
C626	ECUV1H560JCX	S.M. CAP	50V	56pF	
C627	ECUV1H560JCX	S.M. CAP	50V	56pF	
C628	ECUV1H390JCX	S.M. CAP	50V	39pF	
C630	ECUY1H103JCW	S.M. CAP	50V	10nF	
C803	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C804	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C805	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C806	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C807	ECOS2GA101BB	ELECT	400V	100µF	
C808	ECQB1H333J	FILM	50V	33nF	
C810	ECA1VM101GB	ELECT	35V	100µF	
C812	ECA2CHG221E	ELECT	160V	220µF	
C817	ECA1VM101GB	ELECT	35V	100µF	
C820	ECKWNA332ME	CERAMIC	250V	3.3nF	⚠
C854	ECA1HHG471E	ELECT	50V	470µF	
C855	ECJ2VF1H104Z	ELECT	350V	100nF	
C856	ECJ2VF1H104Z	ELECT	350V	100nF	
C857	ECEA1HU101	ELECT	50V	100µF	
C858	ECA1AM222B	ELECT	10V	2200µF	
C859	ECJ2VF1H104Z	ELECT	350V	100nF	
C860	ECEA1HU101	ELECT	50V	100µF	
C861	ECA1CM102B	ELECT	16V	1000µF	
C1201	ECA1EM102GB	ELECT	25V	100µF	
C1203	ECA1EM471GB	ELECT	25V	470µF	
C1204	ECUV1H471KBX	S.M. CAP	50V	470pF	
C1205	ECUV1H471KBX	S.M. CAP	50V	470pF	
C1206	ECUV1H471KBX	S.M. CAP	50V	470pF	
C1207	ECUV1H471KBX	S.M. CAP	50V	470pF	
C1208	ECUV1H471KBX	S.M. CAP	50V	470pF	
C1210	ECJ2YB1H473K	ELECT	350V	47nF	
C1219	ECJ2VF1H104Z	ELECT	350V	100nF	
C1221	ECUV1H331JCX	S.M. CAP	50V	330pF	
C1226	ECJ2VF1H104Z	ELECT	350V	100nF	
C1227	ECEA1HU101	ELECT	50V	100µF	
C1229	ECUV1H470GCG	S.M. CAP	50V	47pF	
C1232	ECJ2VF1H104Z	ELECT	350V	100nF	
C1234	ECJ2VF1H104Z	ELECT	350V	100nF	
C1241	ECEA1HU101	ELECT	50V	100µF	
C1244	ECEA1CU100	ELECT	16V	10µF	
C1249	ECJ2VF1H104Z	ELECT	350V	100nF	
C1256	ECJ2YB1H104K	ELECT	350V	100nF	
C1257	ECUV1H561JCX	S.M. CAP	50V	560pF	
C1258	ECEA1CU100	ELECT	16V	10µF	
C1259	ECUV1H150JCX	S.M. CAP	50V	15pF	
C1260	ECUV1H560JCX	S.M. CAP	50V	56pF	
C1261	ECEA1HU101	ELECT	50V	100µF	
C1262	ECUV1H390JCX	S.M. CAP	50V	39pF	
C1263	ECUV1H390JCX	S.M. CAP	50V	39pF	
C1264	ECUV1H390JCX	S.M. CAP	50V	39pF	
C1265	ECUV1H560JCX	S.M. CAP	50V	56pF	
C1266	ECEA1CU100	ELECT	16V	10µF	
C3101	ECUV1H101JCX	S.M. CAP	50V	100pF	
C3102	ECUV1H561KBX	S.M. CAP	50V	560pF	
C3104	ECJ2VB1H102K	ELECT	350V	1nF	
C3105	ECUV1H101JCX	S.M. CAP	50V	100pF	
C3109	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3113	ECJ2VB1H103K	ELECT	350V	10nF	
C3115	ECEA1CN100	ELECT	16V	10µF	
C3117	ECJ2VF1H104Z	ELECT	350V	100nF	
C3118	ECEA1CN100	ELECT	16V	10µF	
C3119	ECEA1CN100	ELECT	16V	10µF	
TERMINALS AND LINKS					
JK3101	TJB8E011	SCART SOCKET			
JK3102	TJB16663	A.V. TERMINAL			

Cct Ref	Parts Number	Description	
SWITCHES			
S801	ESB91232A	SWITCH	⚠
S1201	EVQ21405R	SWITCH	
S1202	EVQ21405R	SWITCH	
S1203	EVQ21405R	SWITCH	
S1204	EVQ21405R	SWITCH	
S1205	EVQ21405R	SWITCH	
RELAYS			
RL1201	TSE1885-1	RELAY	⚠

DIFFERENCES FOR MODEL TC--14JR1

MECHANICAL PARTS			
3	TBX8E077	5-KEY BUTTON	
4	ZTUZAE350B	ANODE LEAD	⚠
6	TKU8E00510	BACK COVER	⚠
7	UR51CS946-2	BATTERY COVER (REMOTE)	
8	A34EAC01X13	C.R.T.	⚠
9	TKY8E440	CABINET	
12	THE492-4	CRT FIXING SCREW	
13	TLK8E05134	DEGAUSS COIL	⚠
14	TNP8EE007DP	E P.C.B.	⚠
15	ZTFM23001A	F.B.T.	⚠
16	TXFJTF01BTDG	FOCUS LEAD ASSY	⚠
17	TBM8E2078	MODEL LABEL	
18	TBM8E1927	PANASONIC BADGE	
19	TBX8E076	POWER BUTTON	
20	EUR511380	REMOTE CONTROL	
21	EASG9D541B2	SPEAKER	
22	TNP8EY011AP	Y P.C.B.	⚠
MISCELLANEOUS COMPONENTS			
	TKP8E1315	IR WINDOW	
	TPC8E4863	OUTER CARTON	
	TPD8E704	TOP CUSHION	
	TPD8E705	BOTTOM CUSHION	
	TSA8E001	LOOP ANTENNA	
	UM-3DJ-2P	BATTERY PACK	
D805	232266296319	THERMISTOR	⚠
S351	330660069	CRT SOCKET	⚠
INSTRUCTION BOOKS			
	TQB8E2999	ENGLISH	⚠
I.C.s			
IC1201	SDA5222V23	MICRO PROCESSOR	
IC1205	X24SI1-1MAZ	EAROM	
DIODES			
D852	TVSRU2AMV1	DIODE	
D1228	1SS355TE-17	DIODE	
TRANSISTORS			
Q351	TYMQ0003	TRANSISTOR	
Q352	TYMQ0003	TRANSISTOR	
Q353	TYMQ0003	TRANSISTOR	
Q551	BU2506DFRB	TRANSISTOR	
TRANSFORMERS			
T801	ETS29AK237AC	TRANSFORMER	⚠
COILS			
L351	TLTACT331K	COIL	
L352	TLTACT331K	COIL	
L353	TLTACT331K	COIL	
L552	ELC08D682E	COIL	
FILTERS			
L802	ELF15N005A	LINE FILTER	

Cct Ref	Parts Number	Description				
RESISTORS						
C1230	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
C1245	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JYA	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R252	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R254	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R255	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω	
R305	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R306	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R307	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R351	ERG1SJ123E	METAL	1W	5%	12K Ω	
R352	ERG1SJ123E	METAL	1W	5%	12K Ω	
R353	ERG1SJ123E	METAL	1W	5%	12K Ω	
R366	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R367	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R368	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R369	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R370	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R371	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R375	ERDS1TJ182	CARBON	0.5W	10%	1K8 Ω	
R386	ERDS1TJ182	CARBON	0.5W	10%	1K8 Ω	
R387	ERDS1TJ182	CARBON	0.5W	10%	1K8 Ω	
R453	ERDS1TJ1R5	CARBON	0.5W	5%	1R5 Ω	
R503	ERG3SJS101	METAL	3W	5%	10 Ω	⚠
R506	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω	
R508	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω	
R519	ERJ6GEYJ754	S.M.CARB	0.1W	5%	750K Ω	
R522	ERJ6GEYJ394	S.M.CARB	0.1W	5%	390K Ω	
R542	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2K4 Ω	
R543	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R554	ERQ14AJW151	FUSIBLE	0.25W	10%	150 Ω	⚠
R555	ERQ1CJP1R0	FUSIBLE	1W	5%	1 Ω	⚠
R557	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R560	ERDS1TJ304	CARBON	0.5W	5%	300K Ω	
R807	ERG2ANJP101H	METAL	2W	5%	100 Ω	
R1215	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1216	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1217	ERJ6ENF1202	S.M.CARB	0.1W	1%	1K2 Ω	
R1218	ERO50PKF6203	METAL	0.5W	1%	620K Ω	⚠
R1230	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1242	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1251	ERJ6GEYJ513	S.M.CARB	0.1W	5%	51K Ω	
R1252	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R1253	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω	
R1275	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1291	ERJ6GEYJ432	S.M.CARB	0.1W	5%	4K3 Ω	
R1304	ERJ6GEYJ154	S.M.CARB	0.1W	5%	150K Ω	
R1305	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω	
CAPACITORS						
C255	B32529-C224	FILM	50V		220nF	
C351	ECUV1H101JCX	S.M. CAP	50V		100pF	
C352	ECUV1H101JCX	S.M. CAP	50V		100pF	
C353	ECUV1H121JCX	S.M. CAP	50V		120pF	
C453	ECEA1HU101	ELECT	50V		100µF	
C501	ECA1HM0R1B	ELECT	50V		0R1µF	
C550	ECA1VM471GB	ELECT	35V		470µF	
C551	ECWH12H822J	FILM	1250V		8.2nF	
C552	ECQE6104K	FILM	600V		100nF	⚠
C556	ECEA2CGR47	ELECT	160V		0.47µF	
C557	ECWF2H474J	FILM	500V		470nF	⚠
C558	ECEA2CG010	ELECT	160V		1µF	
C563	ECA1VM471GB	ELECT	35V		470µF	
C567	ECA1VM471GB	ELECT	35V		470µF	
C802	ECQE2A474MWB	FILM	250V		470nF	⚠
C811	ECA1JM100GB	ELECT	63V		10µF	
C813	ECQE2A224MWB	FILM	250V		220nF	⚠

Cct Ref	Parts Number	Description				
C853	ECA1CM102B	ELECT	16V		1000µF	
C1228	ECUV1H560GCG	S.M. CAP	50V		56pF	

DIFFERENCES FOR MODEL TX--14JT1

MECHANICAL PARTS

3	TBX8E077	5-KEY BUTTON	
4	ZTUZAE350B	ANODE LEAD	⚠
6	TKU8E00510	BACK COVER	⚠
7	UR51EC924	BATTERY COVER (REMOTE)	
8	A34EAC01X13	C.R.T.	⚠
9	TKY8E440	CABINET	
12	THE492-4	CRT FIXING SCREW	
13	TLK8E05134	DEGAUSS COIL	⚠
14	TNP8EE007DL	E P.C.B.	⚠
15	ZTFM23001A	F.B.T.	⚠
16	TXFJTF01BTDG	FOCUS LEAD ASSY	⚠
17	TBM8E2079	MODEL LABEL	
18	TBM8E1927	PANASONIC BADGE	
19	TBX8E076	POWER BUTTON	
20	EUR511300	REMOTE CONTROL	
21	EASG9D541B2	SPEAKER	
22	TNP8EY011AP	Y P.C.B.	⚠

MISCELLANEOUS COMPONENTS

0	TKP8E1315	IR WINDOW	
0	TPC8E4859	OUTER CARTON	
0	TPD8E704	TOP CUSHION	
0	TPD8E705	BOTTOM CUSHION	
0	TSA8E001	LOOP ANTENNA	
0	UM-3DJ-2P	BATTERY PACK	
D805	232266296319	THERMISTOR	⚠
S351	0330660069	CRT SOCKET	⚠

INSTRUCTION BOOKS

0	TQB8E3019-1	ENGLISH	⚠

I.C.s

IC1201	SDA5254V12	MICRO PROCESSOR
IC1205	X24SI1-1MAZ	EAROM

DIODES

D852	TVSRU2AMV1	DIODE
D1225	MA165TA5	DIODE

TRANSISTORS

Q351	TYMQ0003	TRANSISTOR
Q352	TYMQ0003	TRANSISTOR
Q353	TYMQ0003	TRANSISTOR
Q551	BU2506DFRB	TRANSISTOR
Q1214	BC857B	TRANSISTOR
Q1215	BC857B	TRANSISTOR
Q1216	BC847B	TRANSISTOR

TRANSFORMERS

T801	ETS29AK237AC	TRANSFORMER	⚠

COILS

L351	TLTACT331K	COIL
L352	TLTACT331K	COIL
L353	TLTACT331K	COIL
L552	ELC08D682E	COIL
L1206	EXCELSA35T	COIL

FILTERS

L802	ELF15N005A	LINE FILTER

RESISTORS

JC24	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JYA	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R252	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω

Cct Ref	Parts Number	Description				
R254	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R255	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω	
R305	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R306	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R307	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R351	ERG1SJ123E	METAL	1W	5%	12K Ω	
R352	ERG1SJ123E	METAL	1W	5%	12K Ω	
R353	ERG1SJ123E	METAL	1W	5%	12K Ω	
R366	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R367	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R368	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R369	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R370	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R371	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R375	ERDS1TJ182	CARBON	0.5W	10%	1K8 Ω	
R386	ERDS1TJ182	CARBON	0.5W	10%	1K8 Ω	
R387	ERDS1TJ182	CARBON	0.5W	10%	1K8 Ω	
R453	ERDS1TJ1R5	CARBON	0.5W	5%	1R5 Ω	
R503	ERG3SJS101	METAL	3W	5%	10 Ω	⚠
R506	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω	
R508	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω	
R519	ERJ6GEYJ754	S.M.CARB	0.1W	5%	750K Ω	
R522	ERJ6GEYJ394	S.M.CARB	0.1W	5%	390K Ω	
R542	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2K4 Ω	
R543	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R554	ERQ14AJW151	FUSIBLE	0.25W	10%	150 Ω	⚠
R555	ERQ1CJP1R0	FUSIBLE	1W	5%	1 Ω	⚠
R557	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R560	ERDS1TJ304	CARBON	0.5W	5%	300K Ω	
R807	ERG2ANJP101H	METAL	2W	5%	100 Ω	
R1213	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9 Ω	
R1215	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R1216	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R1217	ERJ6ENF1202	S.M.CARB	0.1W	1%	1K2 Ω	
R1218	ERO50PKF6203	METAL	0.5W	1%	620K Ω	⚠
R1230	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82K Ω	
R1241	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω	
R1242	ERJ6GEYJ434	S.M.CARB	0.1W	5%	43K Ω	
R1251	ERJ6GEYJ513	S.M.CARB	0.1W	5%	51K Ω	
R1252	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R1253	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1256	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω	
R1275	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2 Ω	
R1277	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1278	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8 Ω	
R1290	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1291	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R1292	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1304	ERJ6GEYJ154	S.M.CARB	0.1W	5%	150K Ω	
R1305	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω	
R1306	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1307	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8 Ω	
CAPACITORS						
C255	B32529-C224	FILM	50V		220nF	
C351	ECUV1H101JCX	S.M. CAP	50V		100pF	
C352	ECUV1H101JCX	S.M. CAP	50V		100pF	
C353	ECUV1H121JCX	S.M. CAP	50V		120pF	
C453	ECEA1HU101	ELECT	50V		100µF	
C501	ECA1HM0R1B	ELECT	50V		0R1µF	
C550	ECA1VM471GB	ELECT	35V		470µF	
C551	ECWH12H822J	FILM	1250V		8.2nF	
C552	ECQE6104K	FILM	600V		100nF	⚠
C556	ECEA2CGR47	ELECT	160V		0.47µF	
C557	ECWF2H474J	FILM	500V		470nF	⚠
C558	ECEA2CG010	ELECT	160V		1µF	
C563	ECA1VM471GB	ELECT	35V		470µF	
C567	ECA1VM471GB	ELECT	35V		470µF	
C802	ECQE2A474MWB	FILM	250V		470nF	⚠
C811	ECA1JM100GB	ELECT	63V		10µF	
C813	ECQE2A224MWB	FILM	250V		220nF	⚠
C853	ECA1CM102B	ELECT	16V		1000µF	
C1228	ECUV1H560GCG	S.M. CAP	50V		56pF	
C1230	ECJ2VB1H333K	ELECT	350V		33nF	
C1231	222236516154	FILM	160V		150nF	
C1242	ECUV1H120JCX	S.M. CAP	50V		12pF	
C1245	ECJ2VB1H333K	ELECT	350V		33nF	
C1250	ECUV1H151JCX	S.M. CAP	50V		150pF	
C1269	ECUV1H181JCX	S.M. CAP	50V		180pF	

DIFFERENCES FOR MODEL TX--21JT1

MECHANICAL PARTS

3	TBX8E072	5-KEY BUTTON	
4	ZTUZAE450A	ANODE LEAD	⚠
5	TKK8E043	AV COVER	
6	TKU8E00490	BACK COVER	⚠
7	UR51EC924	BATTERY COVER (REMOTE)	
8	A51EER33X80	C.R.T.	⚠
9	TKY8E420	CABINET	
10	TMZ8E002	CHASSIS RAIL LEFT	
11	TMZ8E001	CHASSIS RAIL RIGHT	
12	VP15005-35	CRT FIXING SCREW	
13	TLK8E05143	DEGAUSS COIL	⚠
14	TNP8EE007DK	E P.C.B.	⚠
15	ZTFM23002A	F.B.T.	⚠
16	TXAJTF01BZAG	FOCUS LEAD ASSY	⚠
17	TBM8E2067	MODEL LABEL	
18	TBM8E1928	PANASONIC BADGE	
19	TBX8E071	POWER BUTTON	
20	EUR511300	REMOTE CONTROL	
21	EASG12D552A2	SPEAKER	
22	TNP8EY011AL	Y P.C.B.	⚠

MISCELLANEOUS COMPONENTS

0	TKP8E1291	LIGHT TUBE	
0	TKP8E1292	IR WINDOW	
0	TPC8E4858	OUTER CARTON	
0	TPD8E697	TOP CUSHION	
0	TPD8E698	BOTTOM CUSHION	
0	TS2800	TV STAND	
0	UM-3DJ-2P	BATTERY PACK	
D805	59209T80B110	THERMISTOR	
S351	TJSC00300	CRT SOCKET	⚠

INSTRUCTION BOOKS

0	TQB8E3019-1	ENGLISH	⚠

I.C.s

IC1201	SDA5254V12	MICRO PROCESSOR
IC1205	X24SI1-1NAZ	EAROM

DIODES

D852	TVSRU2AMLFA4	DIODE
D1225	MA165TA5	DIODE
D1302	1SS355TE-17	DIODE
D3108	1SS355TE-17	DIODE

TRANSISTORS

Q351	2SC5147/D-M1	TRANSISTOR
Q352	2SC5147/D-M1	TRANSISTOR
Q353	2SC5147/D-M1	TRANSISTOR
Q551	BU4506DFRB	TRANSISTOR
Q1214	BC857B	TRANSISTOR
Q1215	BC857B	TRANSISTOR
Q1216	BC847B	TRANSISTOR

Cct Ref	Parts Number	Description				
Q1301	BC847B	TRANSISTOR				
Q3111	BC847B	TRANSISTOR				
TRANSFORMERS						
T801	ETS29AK227AC	TRANSFORMER				⚠
COILS						
L351	T3A205016	COIL				
L352	T3A205016	COIL				
L353	T3A205016	COIL				
L551	ELH5L4119	COIL				
L553	ELH16F762T	COIL				
L1206	EXCELSA35T	COIL				
RESISTORS						
JC24	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω	
R252	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R254	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω	
R255	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω	
R305	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω	
R306	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω	
R307	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω	
R351	ERG2ANJP103H	METAL	2W	5%	10K Ω	
R352	ERG2ANJP103H	METAL	2W	5%	10K Ω	
R353	ERG2ANJP103H	METAL	2W	5%	10K Ω	
R366	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R367	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R368	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R369	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R370	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R371	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R375	ERDS1TJ272	CARBON	0.5W	5%	2K7 Ω	
R378	ERD25TJ274	CARBON	0.25W	5%	270K Ω	
R379	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω	
R380	ERJ6GEYJ684	S.M.CARB	0.1W	5%	680K Ω	
R386	ERDS1TJ272	CARBON	0.5W	5%	2K7 Ω	
R387	ERDS1TJ272	CARBON	0.5W	5%	2K7 Ω	
R453	ERDS1TJ1R0	CARBON	0.5W	5%	1 Ω	
R503	ERG3SJS151	METAL	3W	5%	150 Ω	
R506	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R508	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R519	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82K Ω	
R522	ERJ6GEYJ684	S.M.CARB	0.1W	5%	680K Ω	
R542	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω	
R543	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R553	ERQ1CJP102	FUSIBLE	1W	5%	1K Ω	⚠
R555	ERQ1CJP1R5	METAL	1W	5%	1R5 Ω	⚠
R557	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R559	ERQ1CJP4R7	FUSIBLE	1W	5%	4R7 Ω	⚠
R560	ERDS1TJ244T	CARBON	0.5W	5%	240K Ω	
R807	ERG3FJ101	METAL	3W	5%	100 Ω	⚠
R1213	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9 Ω	
R1215	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R1216	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R1217	ERJ6ENF7501	S.M.CARB	0.1W	1%	7K5 Ω	
R1218	ERO50PKF5603	METAL	0.5W	1%	560K Ω	⚠
R1230	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82K Ω	
R1241	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω	
R1242	ERJ6GEYJ434	S.M.CARB	0.1W	5%	43K Ω	
R1251	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1252	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1253	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1256	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω	
R1275	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2 Ω	
R1277	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1278	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8 Ω	
R1290	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω	
R1291	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	

Cct Ref	Parts Number	Description				
R1292	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1304	ERJ6GEYJ184	S.M.CARB	0.1W	5%	180K Ω	
R1305	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1306	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1307	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8 Ω	
R1314	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R1315	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3147	2-640463-3	METAL	2W	5%	22K Ω	
R3148	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
CAPACITORS						
C351	ECUV1H221JCX	S.M. CAP	50V		220pF	
C352	ECUV1H271JCX	S.M. CAP	50V		270pF	
C353	ECUV1H221JCX	S.M. CAP	50V		220pF	
C453	ECA1HHG101B	ELECT	50V		100µF	
C454	ECA1HHG2R2B	ELECT	50V		100µF	
C551	ECWH12H103JR	FILM	1250V		10nF	⚠
C552	ECQF4273JZH	FILM	400V		27nF	⚠
C555	ECKC3D122J	CERAMIC	2KV		1.2nF	⚠
C557	ECWF2H394JZ	FILM	500V		390nF	⚠
C558	ECA2CM4R7B	ELECT	160V		390nF	
C565	ECA1VM471GB	ELECT	35V		470µF	
C567	ECA1VHG471B	ELECT	35V		47µF	
C802	222233591028	FILM	250V		28nF	⚠
C811	ECA1JHG100B	ELECT	6.3V		100µF	
C853	ECA1EM102GB	ELECT	25V		100µF	
C1228	ECUV1H470GCG	S.M. CAP	50V		47pF	
C1230	ECJ2VB1H333K	ELECT	350V		33nF	
C1231	222236516154	FILM	160V		150nF	
C1242	ECUV1H120JCX	S.M. CAP	50V		12pF	
C1245	ECJ2VB1H333K	ELECT	350V		33nF	
C1250	ECUV1H151JCX	S.M. CAP	50V		150pF	
C1269	ECUV1H181JCX	S.M. CAP	50V		180pF	
C1301	ECUV1H471JCX	S.M. CAP	50V		470pF	

SCHEMATIC DIAGRAMS FOR MODEL

TX-21JT1, TX-14JT1, TC-14JR1

(Z7 CHASSIS)

IMPORTANT SAFETY NOTICE
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturers' specified parts.

NOTE

1. RESISTOR
   All resistors are carbon ¼W resistor, unless marked otherwise.
   Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)
2. CAPACITORS
   All capacitors are ceramic 50V unless marked otherwise.
   Unit of capacitance is μF unless otherwise stated.
3. COIL
   Unit of inductance is μH, unless otherwise stated.
4. TEST POINT
   Test Point Position
5. EARTH SYMBOL
   Chassis Earth (Cold)
   Line Earth (Hot)
6. VOLTAGE MEASUREMENT
   Voltage is measured by a d.c. voltmeter.
   Measurement conditions are as follows:

Power source	a.c. 220V-240V, 50Hz
Receiving Signal	Colour Bar signal (RF)
All customer controls	Maximum position

7.
   Indicates the Video signal path
   Indicates the Audio signal path

These schematic diagrams are the latest at time of printing and are subject to change without notice.

REMARKS

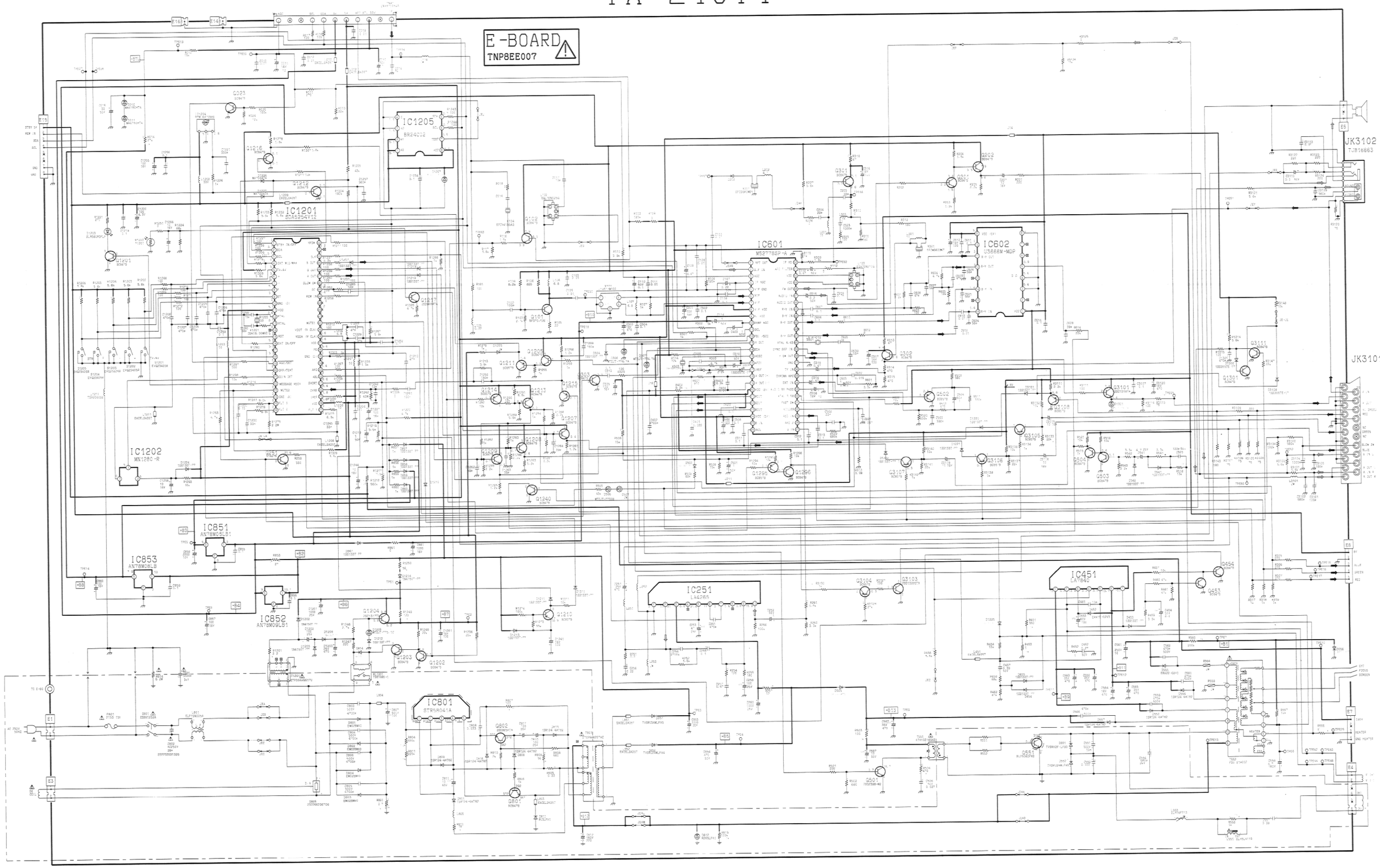
a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
b. Do not short circuit the hot and cold circuits as electrical components may be damaged.
c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
d. Make sure to disconnect the power plug before removing the chassis.

NOTE

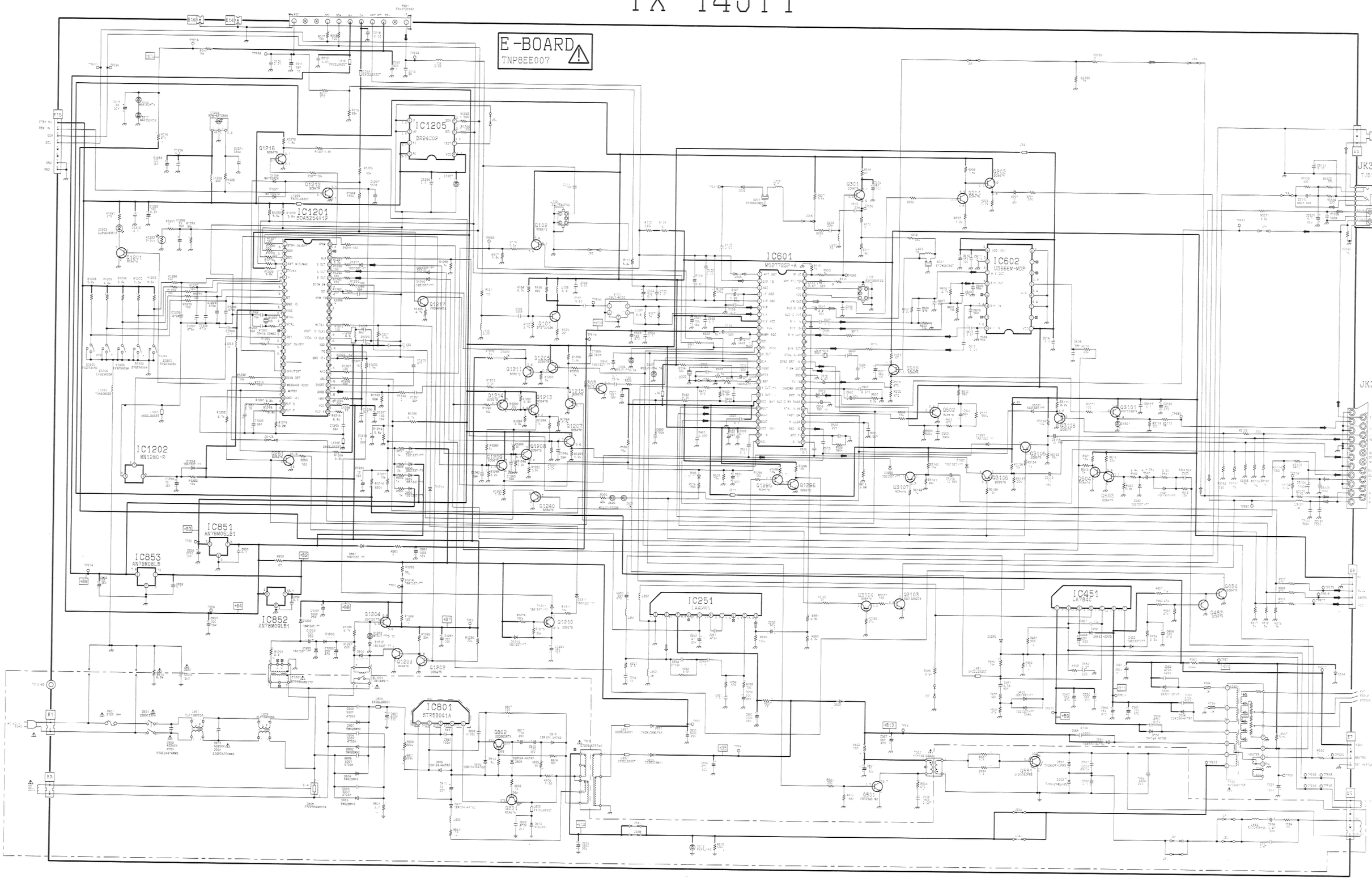
1. The Power Supply Circuit contains a circuit area, which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD.

TX-21JT1

E-BOARD
TNP8EE007



TX-14JT1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IC1205
IC1201
SDA5254V12
IC1202
MN1280-R
IC601
IC602
U3666M-MDP
IC451
LA7840
IC251
IC851
ANY8M05LB1
IC853
ANY8M05LB
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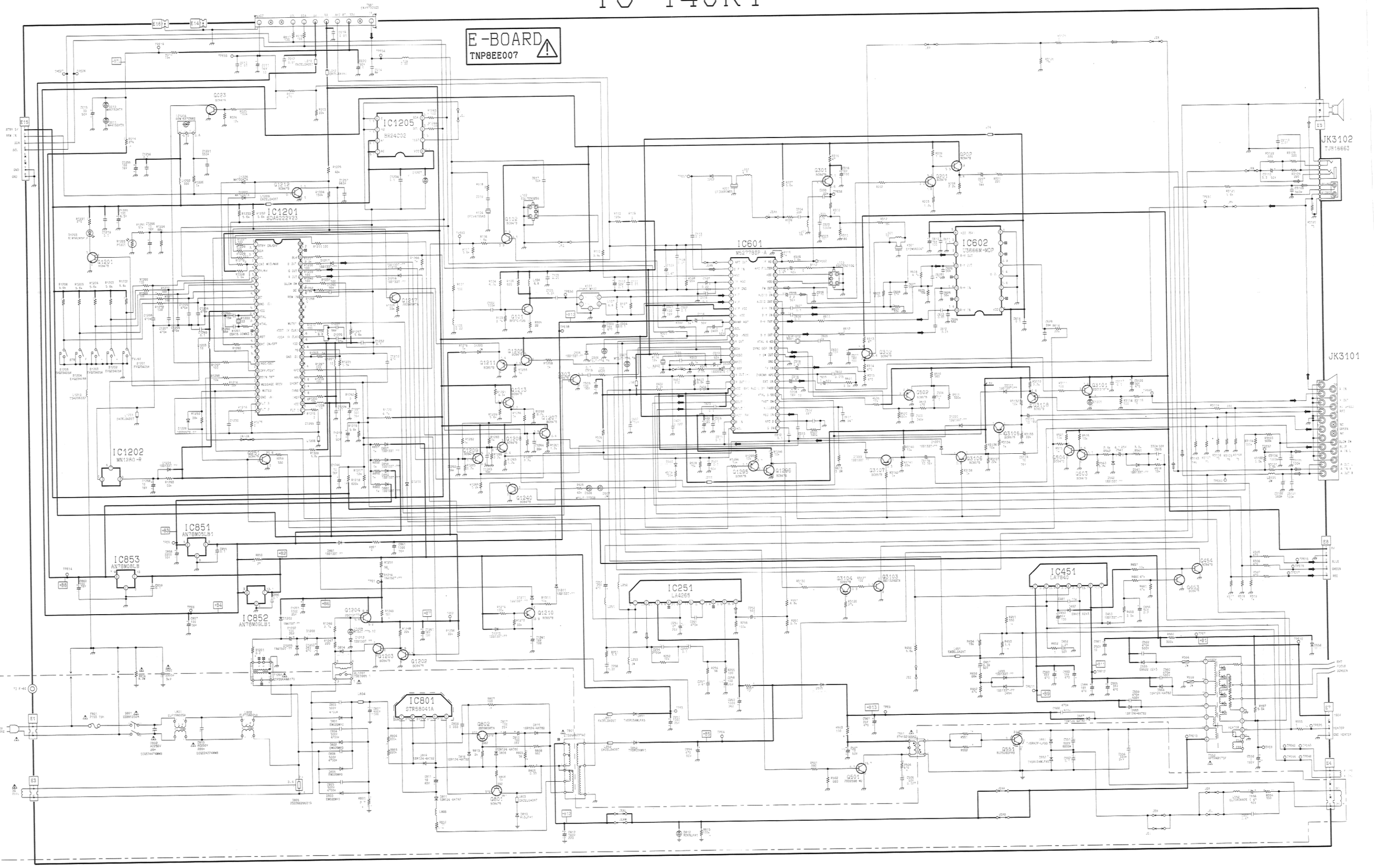
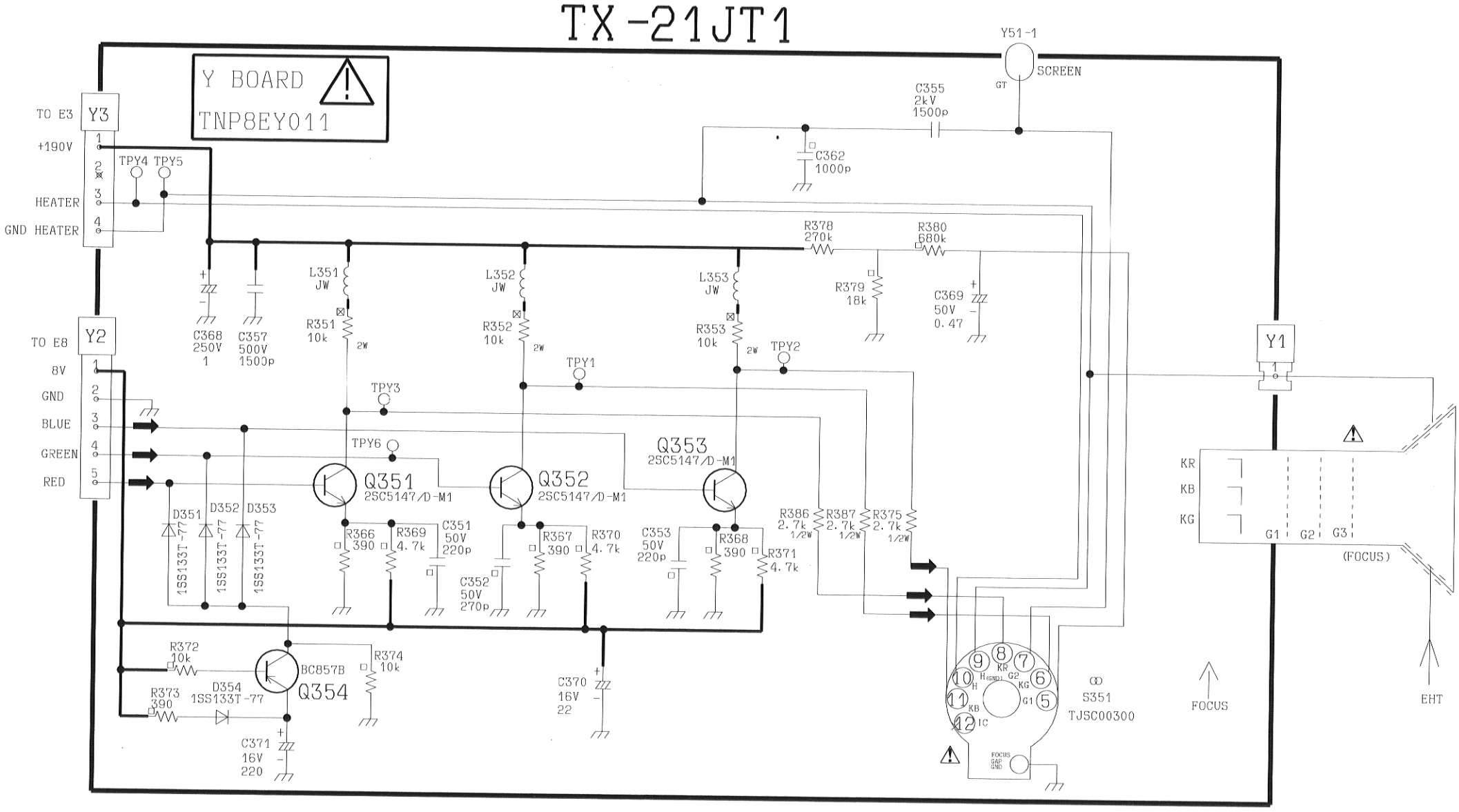
ANY8M09LB1
IC801
STR58041A
JK3102
JK3101

TC-14JR1

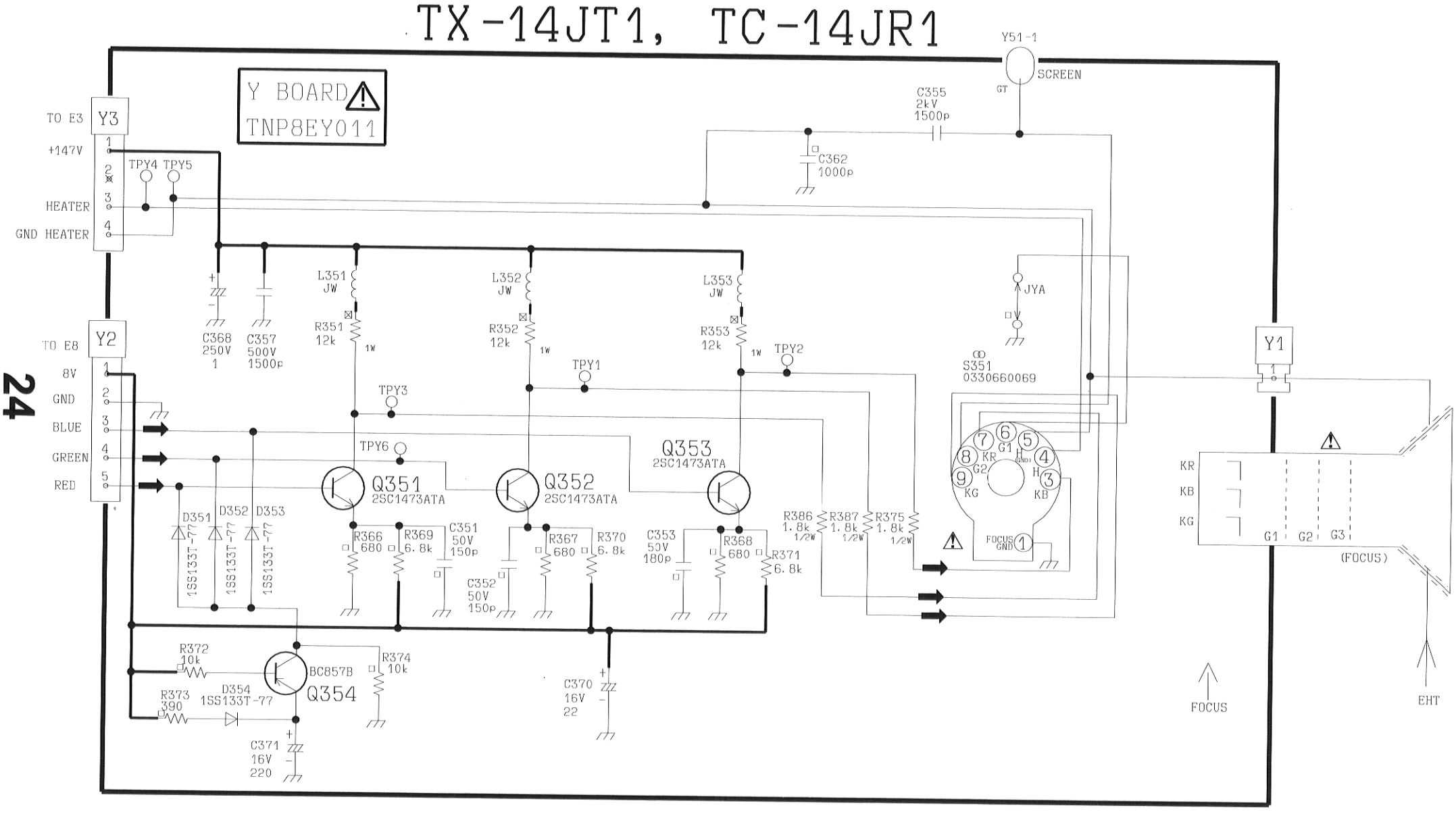
E-BOARD
TNP8EE007



TX-21JT1



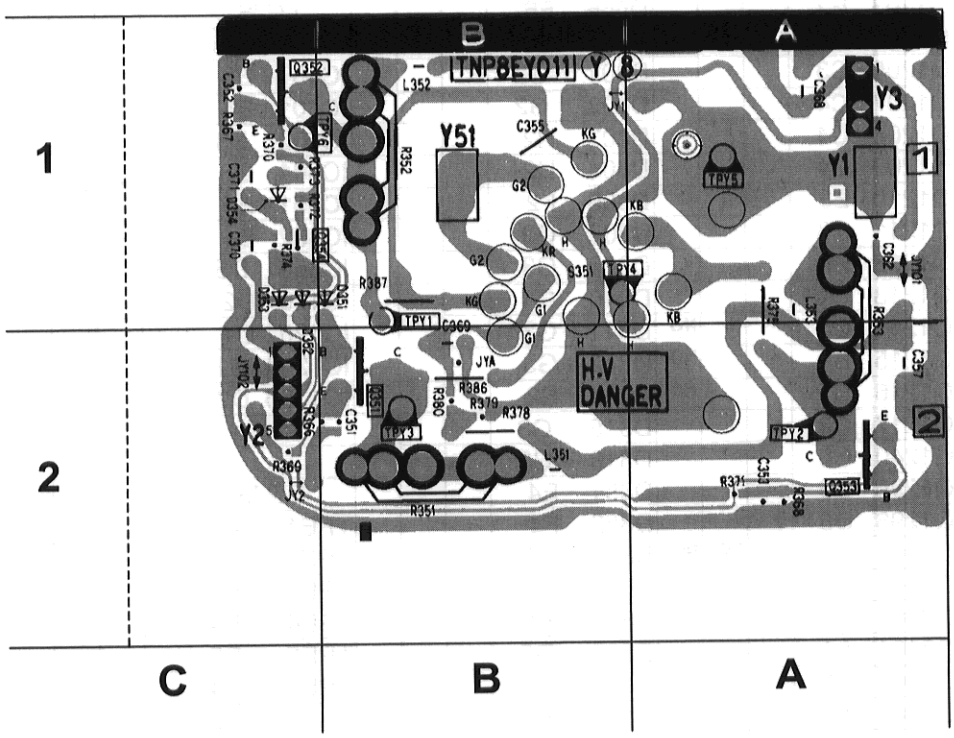
TX-14JT1, TC-14JR1



CONDUCTOR VIEWS FOR MODEL TX-21JT1, TX-14JT1, TC-14JR1

Y-BOARD TNP8EY011

TRAN´S	
Q351	B2
Q352	C1
Q353	A2
Q354	C1
DIODES	
D351	C1
D352	C1
D353	C1
D354	C1
T.P.´S	
TPY4	B2
TPY5	B1



E-BOARD TNP8EE007

	TX-21JT1	TX-14JT1	TC-14JR1
TRAN'S			
Q023 B2			
Q101 B5			
Q201 A3			
Q202 A4			
Q251 D3			
Q301 B4			
Q302 C3			
Q303 B5			
Q453 E6			
Q454 E6			
Q501 F5			
Q502 B4			
Q503 E5			
Q504 E5			
Q551 H4			
Q801 F3			
Q802 G3			
Q1201 G1			
Q1202 E2			
Q1203 E2			
Q1204 E2			
Q1205 C3			
Q1207 C4			
Q1208 C4			
Q1209 C4			
Q1210 E3			
Q1211 C3			
Q1212 D2			
Q1213 C4			
Q1214 C4			NO
Q1215 B4			NO
Q1216 D2			NO
Q1217 D2			
Q1240 C6			
Q1295 C5			
Q1296 D6			
Q1301 D2		NO	NO
Q3101 D5			
Q3103 A4			
Q3104 A4			
Q3105 C5			
Q3106 D5			
Q3107 D5			
Q3108 C6			
Q3111 D3		NO	NO
DIODES			
D010 E6			
D011 E6			

	TX-21JT1	TX-14JT1	TC-14JR1
D202 A4			
D304 B5			
D306 B6			
D307 B5			
D452 E6			
D453 E6			
D454 E6			
D455 E6			
D503 C5			
D504 C6			
D505 E5			
D506 C5			
D507 D5			
D541 F6			
D542 E6			
D551 H5			
D552 H4			
D553 F6			
D554 G6			
D555 F6			
D556 F6			
D557 E5			
D801 G2			
D802 G2			
D803 H2			
D804 H2			
D805 F2			
D808 G3			
D809 G3			
D810 G4			
D811 G3			
D812 G3			
D814 E2			
D815 G3			
D816 G3			
D851 E4			
D852 F4			
D857 E5			
D858 E5			
D859 E5			
D860 D5			
D861 D4			
D1202 E2			
D1205 E1			
D1207 D1			
D1208 E1			
D1209 E2			
D1210 D2			
D1211 D4			
D1212 E2			

	TX-21JT1	TX-14JT1	TC-14JR1
D1213 E3			
D1214 E3			
D1217 C4			
D1218 C4			
D1219 C4			
D1220 C5			
D1221 C5			
D1222 C5			
D1223 C3			
D1224 D2			
D1225 F5			NO
D1226 D2			
D1227 D2			
D1228 C2	NO	NO	
D1301 D5			
D1302 D3		NO	NO
D1311 E3			
D3101 D6			
D3108 C6		NO	NO
I.C.'S			
IC251 D3			
IC451 E6			
IC601 B4			
IC602 B3			
IC801 G3			
IC851 E5			
IC852 E4			
IC853 D5			
IC1201 D2			
IC1202 D1			
IC1204 G1			
IC1205 D2			
T.P.'S			
TPE1 E2			
TPE2 E2			
TPE3 E4			
TPE4 E4			
TPE5 E5			
TPE6 E4			
TPE9 E5			
TPE10 F6			
TPE11 E6			
TPE12 F6			
TPE13 G5			
TPE14 D4			
TPE18 B5			
TPE19 A6			

E – BOARD TNP8EE007